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(71) Applicant (*for all designated States except US*): **DOW GLOBAL TECHNOLOGIES INC.** [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **HEFNER, Robert, E., Jr.** [US/US]; 109 Wedgewood, Lake Jackson, TX 77566 (US).

(74) Agent: **DELINE, Douglas, N.**; The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).

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(54) Title: MULTIFUNCTIONAL MONOMERS CONTAINING BOUND MESOGENIC PORAGEN FORMING MOIETIES AND POLYARYLENE COMPOSITIONS THEREFROM

(57) Abstract: A compound (monomer) comprising i) one or more dienophile groups (A-functional groups), ii) one or more ring structures comprising two conjugated carbon-to-carbon double bonds and a leaving group L (B-functional groups), and iii) one or more chemically bound mesogenic poragen forming moieties, characterized in that the A-functional group is capable of reaction under cycloaddition reaction conditions with the B-functional group to thereby form a cross-linked, polyphenylene polymer.